- 3. Except as noted, line posts are 6" x 8" x 6'-0" wood with 6" x 8" x 1'-2" wood blocks. W6 x 8.5 or W6 x 9 steel posts, 6'-0" in length, with 6" x 8" x 1'-2" notched wood blocks or notched recycled plastic blocks may be used for 6" x 8" x 6'-0" wood posts with 6" x 8" x 1'-2" wood blocks where applicable and when specified.
- 4. A 4'-0" minimum clearance is required between the face of the railing and the face of a fixed object located directly behind MCS sections with post spacing at 6'-3". Construct MCS as shown in the detail "Strengthened Midwest Guardrail System Sections for Fixed Objects" on this plan, where the clearance between the face of the railing and the face of a fixed object is less than 4'-0", but not less than 3'-0". Where the clearance is less than 3'-0", a concrete wall or barrier should be constructed to shield the fixed object(s).
- 5. 31" in-line terminal system end treatments are used where site conditions will not accommodate a 31" flared end treatment.
- 8. Layout Types 16D through 16L, shown on the A77R Series of Standard PLans, typically used where M6S is recommended to shield roadside fixed object(s) and a crashworthy 31" end treatment is required for both directions of traffic.
- 9. Where placement of dike is required with MGS, see Standard Plan A77N4 for dike positioning details.
- 10. W6 x 15 steel post, 8'-0" in length, with 8" x 8" x 1'-2" notched wood block or notched recycled plastic blocks may be used in place of the  $10"\times$   $10"\times$  8'-0" wood post with  $8"\times$   $8"\times$  1'-2" wood block shown in the detail "Strengthened Midwest Guardrali System Sections for Fixed Object".
- 11. Use this offset for 8" block. For 12" block use minimum 4'-0" offset.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

## MIDWEST GUARDRAIL SYSTEM TYPICAL LAYOUTS FOR ROADSIDE FIXED OBJECTS

NO SCALE

A77R6